

## **Summary of CTEH's Air Monitoring Activities for the Community In Response to the MC 252 Oil Spill**

### **Daily Summary for May 31, 2010**

Air monitoring was conducted between Intercoastal City, LA and Apalachee Bay, FL to address public concern for crude oil vapors. The results of air monitoring for May 30, 2010 18:00 – May 31, 18:00 are shown in Tables 1 and 2 below and the locations where monitoring was conducted are shown in the map below (Figure 1).

**Table 1 Summary of Air Monitoring In Residential and Commercial Areas Along the Gulf Coast**

Crude Oil Chemicals of Interest	Number of Measurements	Average Concentration (ppm)	Maximum Concentration (ppm)
Volatile Organic Compounds including benzene (VOCs)	1399	<0.1	0
Hydrogen sulfide	1346	<1.0	0
Sulfur dioxide	1218	<0.1	0.1
Benzene*	84	<0.1	0
Total	4047		

\*Benzene measured with detector tubes

**Table 2**

Particulates	Number of Measurements	Average Concentration (mg/m <sup>3</sup> )	Maximum Concentration (mg/m <sup>3</sup> )
Particulate Matter (PM2.5)*	1228	0.004	0.086

\*PM2.5 – is particulate matter less than 2.5 microns

Air monitoring results show that crude oil vapors were not detected throughout residential and commercial areas between Intercoastal City, LA and Apalachee Bay FL. There was one non-sustained reading of 0.1 ppm sulfur dioxide (SO<sub>2</sub>) in Louisiana. This was attributed to heavy boat traffic near the dock where the samplings occurred. The reading returned to zero after the boats passed. Testing teams trained in odors also noted the presence or absence of crude oil vapors (Figure 2). Oil odors were not detected between Intercoastal City, LA and Apalachee, FL.

**Figure 1 Map Showing Where Air Monitoring is Being Conducted Throughout the Gulf Coast States**



Note – green dot shows the locations of air monitoring

Figure 2 – Odor Investigation Results



Note – blue dot means no odor detected, orange dot indicates that crude oil odors were detected.

